1.

9.

11.

7.

Multiplying at Sight

A. Multiply

$$\sqrt{1.(x+2)(x+4)}$$

2.
$$(a+2)(a+5)$$

3.
$$(y+2)(y+3)$$

4.
$$(x + 4)(x + 5)$$

5.
$$(n+1)(n+7)$$

6.
$$(x + 5)(x - 2)$$

$$\sqrt{7}$$
. $(a+8)(a-2)$

8.
$$(c-6)(c+1)$$

9.
$$(x - 3)(x - 4)$$

10.
$$(a-5)(a-9)$$

11.
$$(x + 2)(x + 3)$$

12.
$$(y + 5)(y + 1)$$

13.
$$(a+6)(a+2)$$

14.
$$(x-4)(x-3)$$

$$\sqrt{15}$$
. $(y-6)(y-1)$

16.
$$(x + 3)(x - 7)$$

17.
$$(c-9)(c+6)$$

18.
$$(2x + 1)(x + 3)$$

$$\sqrt{19}$$
. $(2y - 6)(4y + 1)$

20.
$$(5x + 2)(3x - 1)$$

$$\sqrt{21}$$
. $(2a - b)(3a + 4b)$

22.
$$(7r-s)(r+4s)$$

B. Multiply

1.
$$(x + 4)(x + 3)$$

2.
$$(x+3)(x+5)$$

3.
$$(x+6)(x+2)$$

4.
$$(x+2)(x+1)$$

5.
$$(x-1)(x-2)$$

6.
$$(x-6)(x-3)$$

7.
$$(x-4)(x-3)$$

9.
$$(3x + 4)(3x - 4)$$

10.
$$(a-1)(a+3)$$

11.
$$(n+2)(n-1)$$

12.
$$(3x + 2y)(2x + 3y)$$

13.
$$(y + 6)(y - 2)$$

14.
$$(a+5)(a-3)$$

$$16.(x+2)(x-2)$$

17.
$$(a + b)(a - b)$$

18.
$$(3n + 2p)(7n - p)$$

2.

10.

8.

Determine the slope of the line that passes through each pair of points

Determine the value of \underline{r} so the line that passes through each pair of points has the given slope.

7.
$$(-1, r)$$
, $(1, -4)$, $m = -5$

8. (-2, 1), (r, 4),
$$m = \frac{3}{5}$$

7.
$$(-1, r)$$
, $(1, -4)$, $m = -5$ 8. $(-2, 1)$, $(r, 4)$, $m = \frac{3}{5}$ $\sqrt{9}$. $(-1, 3)$, $(-3, r)$, $m = -3$

2.

4.

6.

8.

1.

3.

5.

7.

10. (3, r), (7, -2),
$$m = \frac{1}{2}$$

10. (3, r), (7, -2),
$$m = \frac{1}{2}$$
 11. (r, -2), (-7, -1), $m = -\frac{1}{4}$ 12. (-3, 2), (7,

12.
$$(-3, 2)$$
, $(7, r)$, $m = \frac{2}{3}$

Write the point-slope form of an equation of the line that passes through the give point and has the given slope.

$$\sqrt{14}$$
. (5, 4), m = -5 15. (-2, -4), m = $\frac{3}{4}$

15. (-2, -4),
$$m = \frac{3}{4}$$

16.
$$(-3, 1)$$
, $m = 0$

16. (-3, l), m = 0 17. (-1, 0), m =
$$\frac{2}{3}$$
 18. (0, 6), m = -2

Write the standard form of an equation of the line that passes through the given point and has the given slope.

19. (-6, -3),
$$m = -\frac{1}{2}$$

19. (-6, -3),
$$m = -\frac{1}{3}$$
 $\sqrt{20}$. (4, -3), $m = 2$ 21. (5, 4), $m = -\frac{2}{3}$

21. (5, 4),
$$m = -\frac{2}{3}$$

22. (1, 3), m = undefined 23. (-2, 6), m = 0 24. (6, -2), m =
$$\frac{4}{3}$$

24. (6, -2),
$$m = \frac{4}{3}$$

Find the x- and y- intercepts of the graph of each eauation.

25.
$$3x + 2y = 6$$

25.
$$3x + 2y = 6$$
 $\sqrt{26.} 5x + y = 10$

27.
$$2x + 5y = -11$$

28.
$$3y = 12$$

29.
$$y - 6x = 5$$

Write an equation in slope-intercept form of a line with the given slope and y-intercept.

31.
$$m = -\frac{2}{5}$$
, $b = 2$ 32. $m = 5$, $b = -15$ 33. $m = -\frac{7}{4}$, $b = 2$

32.
$$m = 5$$
, $b = -15$

33.
$$m = -\frac{7}{4}$$
, $b = 2$

34.
$$m = -\frac{4}{3}$$
, $b = \frac{5}{3}$ 35. $m = -6$, $b = 15$ 36. $m = 12$, $b = -24$

Find the slope and y intercept of the graph of each equation.

37.
$$y - \frac{3}{5}x = -\frac{1}{4}$$

38.
$$y = 3x - 7$$

38.
$$y = 3x - 7$$
 39. $\frac{2}{3}x + \frac{1}{6}y = 2$

$$\sqrt{40}$$
. $2x + 3y = 5$

41.
$$3y = 8x + 2$$

42.
$$5y = -8x - 2$$

Write an equation in standard form for a line that passes through each pair of points.

43.

45.

47.

r), $m = \frac{2}{3}$		12.				
13.			14.		•	
15.			16.			
17.			18.			
19.			20.			
21.			22.			
23.			24.			
25. X	у	1	26.	Х		У
27.			28.			
29.			30.			
31.			32.			
33.			34.			
35.			36.			
37. m	У	7	38.	m		У
39.			40.			
41.			42.			
			1			

44.

46.

48.

10

PR Exercise 13A-1

Tsai's math copy right

Simplify

 $\sqrt{\frac{1}{18}}$ $\sqrt{\frac{2}{128}}$ $\sqrt{\frac{3}{24}}$ $\sqrt{\frac{4}{12}}$ $\sqrt{\frac{5}{16}}$ $\sqrt{\frac{6}{48}}$ $\sqrt{\frac{7}{32}}$

8. $\sqrt{64}$ 9. $\sqrt{56}$ $\sqrt{84}$ $\sqrt{11}$ $\sqrt{72}$ $\sqrt{2}$ $\sqrt{96}$ $\sqrt{5/2}$ $\sqrt{36}$

1	2	3	4	5 .	6 -	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

Multiplying

 $\sqrt{1.\sqrt{6}} \times \sqrt{8}$

2. $\sqrt{15} \times \sqrt{5}$ 3. $\sqrt{6} \times \sqrt{8}$

 $4.\sqrt{7} \times \sqrt{5}$

 $\sqrt{5}, \sqrt{27} \times \sqrt{3} \qquad \qquad 6, \sqrt{6} \times \sqrt{12}$

7. $\sqrt{2} \times \sqrt{8}$

8. $\sqrt{3} \times \sqrt{12}$

9. $\sqrt{8} \times \sqrt{2}$

10. $\sqrt{18} \times \sqrt{6}$ 11. $\sqrt{10} \times \sqrt{2}$

 $12. \sqrt{5} \times \sqrt{30}$

 $\sqrt{13}$, $\sqrt{8}$ x 2 $\sqrt{6}$ 14. 2 $\sqrt{5}$ x 5 $\sqrt{15}$ 15. 3 $\sqrt{6}$ x 2 $\sqrt{3}$ 16. 2 $\sqrt{3}$ x $\sqrt{8}$

 $\sqrt{17.2}\sqrt{14} \times 3\sqrt{7}$

18. $2\sqrt{6} \times 4\sqrt{10}$

19. $3\sqrt{2} \times \sqrt{12}$ 20. $\sqrt{15} \times \sqrt{10}$

 $21.4\sqrt{15} \times 2\sqrt{6}$

22. $4\sqrt{12} \times 3\sqrt{3}$

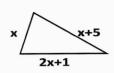
23. $\sqrt{20} \times 5\sqrt{2}$

24. $6\sqrt{3} \times \sqrt{18}$

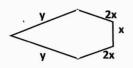
1	2	3	4	5	6	7	8
							~
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
		A					

Exercise 5B - 7

A. Find the perimeter

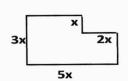


2.



3.

6.



2h

2h

1.

2. 3.

4.

5.

6.

7.

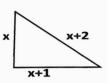
9.

4.

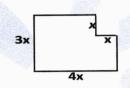


5.

8.



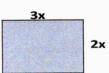
9.



7.

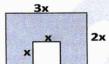


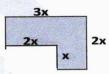
10a.



2a

10b.





10a.

10b.

10c.

11a.

11b.

11c.

12a.

12b.

12c.

13.

14.

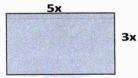
15.

16.

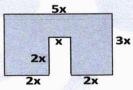
17.

18.

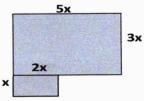
11a.



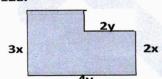
11b.



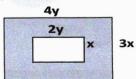
11c.



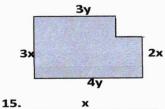
12a.



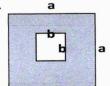
12a.



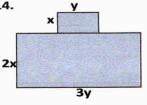
12a.



13.

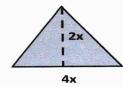


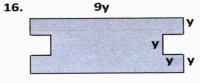
14.



18.

w





17.

