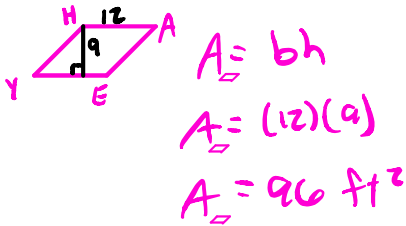


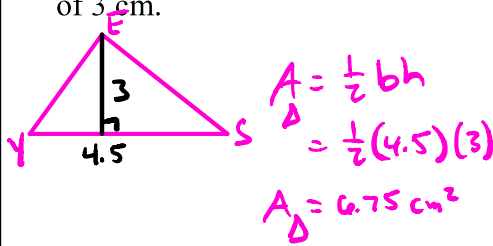
# 16.2 PRACTICE

Draw the following. Find the area. Label your answer!

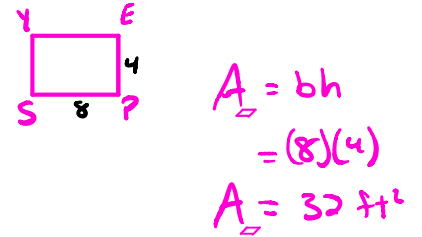
1.  $\square YEAH$  with base of 12 ft and height of 9 ft.



2.  $\triangle YES$  with base 4.5 cm and altitude of 3 cm.

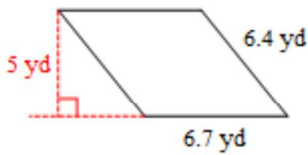


3. 4ft x 8ft rectangle  $YEPS$ .

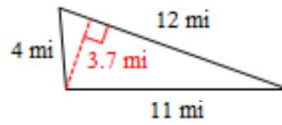


Find the area of each. Label your answer!

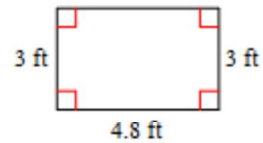
4.



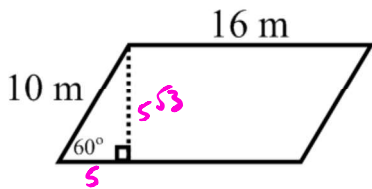
5.



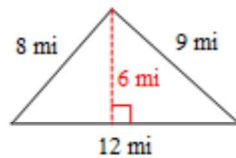
6.



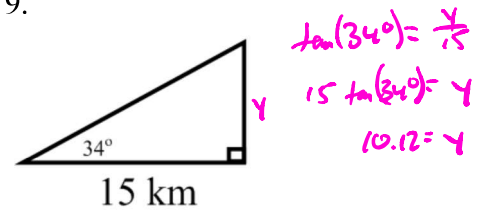
7.



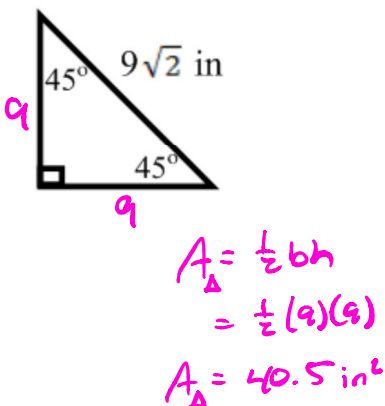
8.



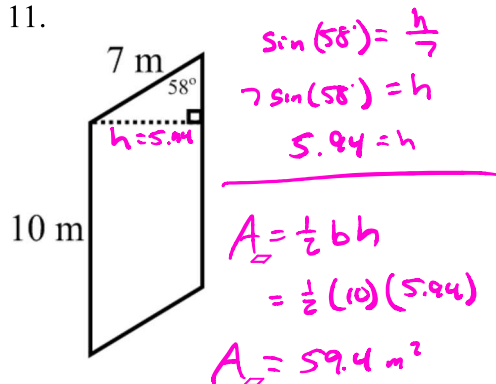
9.



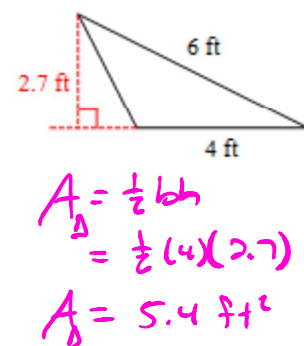
10.



11.



12.



**Find the missing measurement. Round to the nearest tenth.**

13.

8.1 km  
6.6 km  
? km

Area = 79.2 km<sup>2</sup>

$A = b \cdot h$   
79.2 = b · (6.6)  
12 km = b

14.

11 yd  
11 yd  
? yd

Area = 123.2 yd<sup>2</sup>

$A = b \cdot h$   
123.2 = b (11)  
11.2 yd = b

15.

8.4 ft  
7.3 ft  
? ft

Area = 28.1 ft<sup>2</sup>

$A = \frac{1}{2}bh$   
28.1 =  $\frac{1}{2}$  (7.3) h  
28.1 = 3.65 h  
7.7 ft = h

16.

11.8 yd  
9.7 yd  
? yd

Area = 47 yd<sup>2</sup>

$A = \frac{1}{2}bh$   
47 =  $\frac{1}{2}$  b (9.7)  
47 = 4.85 b  
9.69 yd = b

**Find x.**

17.

x + 3  
x

Area = 40 ft<sup>2</sup>

$A = b \cdot h$   
40 = (x + 3) x  
0 = x<sup>2</sup> + 3x - 40  
0 = (x + 8)(x - 5)  
0 = x + 8 } 0 = x - 5  
-8 = x } 5 = x  
x = 5 ft

Makes no sense.

18.

x - 5  
x + 3

Area = 65 ft<sup>2</sup>

$A = b \cdot h$   
65 = (x + 3)(x - 5)  
65 = x<sup>2</sup> - 2x - 15  
0 = x<sup>2</sup> - 2x - 80  
0 = (x - 10)(x + 8)  
0 = x - 10 } 0 = x + 8  
10 = x } -8 = x  
x = 10 ft

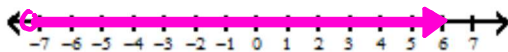
Makes no sense.

**ALGEBRA REVIEW**

**SOLVE**

2(3 - 2x) < 35

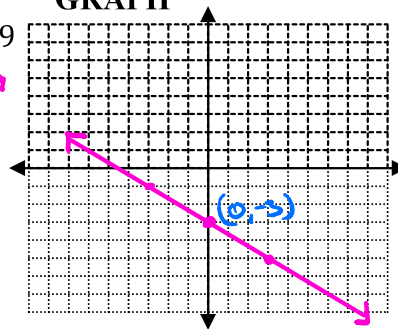
6 - 4x < 35  
-4x < 29  
x >  $\frac{29}{-4}$   
x > -7.25



**GRAPH**

2x + 3y = -9

3y = -2x - 9  
y =  $-\frac{2}{3}x - 3$



**MULTIPLY**

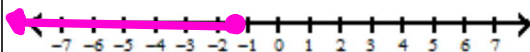
(2x - 5)(x + 3)

= 2x<sup>2</sup> - 5x + 6x - 15  
= 2x<sup>2</sup> + x - 15

**SOLVE**

4x + 5 ≥ 8 + 6x

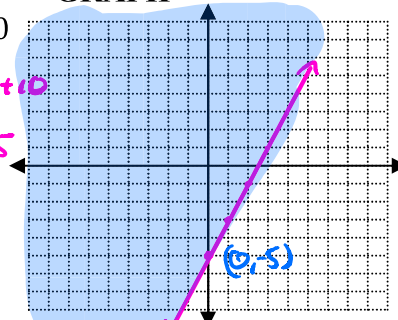
5 ≥ 8 + 2x  
-3 ≥ 2x  
-3/2 ≥ x



**GRAPH**

4x - 2y ≤ 10

-2y ≤ -4x + 10  
y ≥ 2x - 5



**FACTOR**

6x<sup>2</sup> - 7x - 5

=  $\frac{(6x+3)(4x-10)}{6}$  Australia method  
=  $\frac{1(2x+1)1(3x-5)}{6}$   
= (2x+1)(3x-5)

mult -30 / Add -10