

Lesson 4.1.3 and 4.1.5 Assignment

Name:

Date:

Period:

4-28. Factor the following expressions, if possible. [Homework Help](#) 

a. $k^2 - 12k + 20$

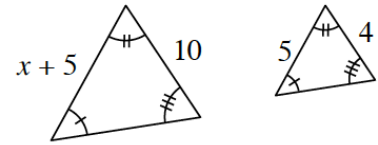
b. $6x^2 + 17x - 14$

c. $x^2 - 8x + 16$


d. $9m^2 - 1$

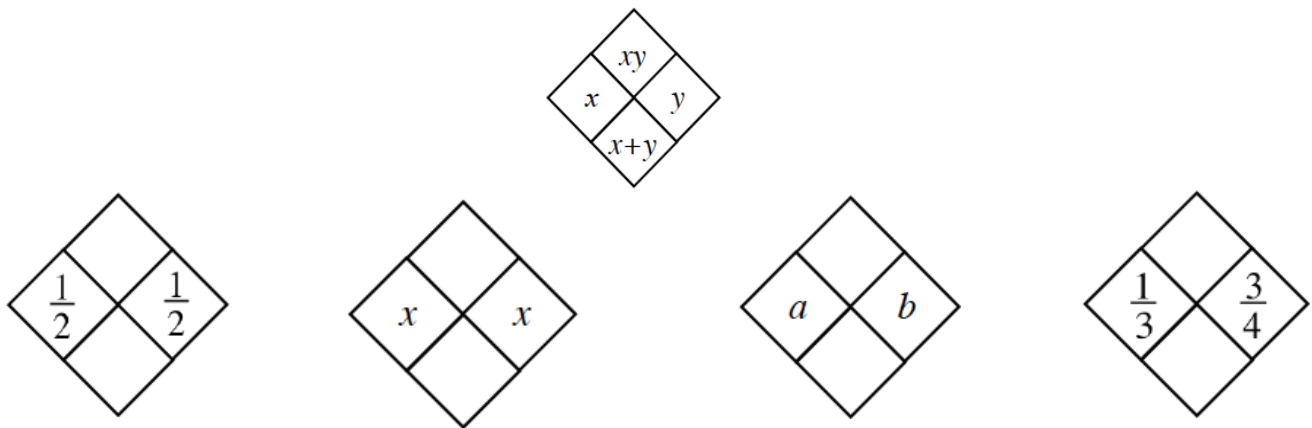
a.	c.
b.	d.


4-30. Examine the triangles at right. Solve for x . Redraw and label the diagrams as needed. [Homework Help](#) 



4-32.

Copy and complete each of the Diamond Problems below. The pattern used in the Diamond Problems is shown at right. [Homework Help](#) 



4-33. Simplify the following expression: $3x^3 - 2x^2 + 4 - (3x^3 + 5x^2 - 2)$. [Homework Help](#) 

a. How many terms are in your answer?

b. What is the coefficient of x in your answer?

4-50. Completely factor each polynomial. [Homework Help](#) 


a. $x^2 - 64$

b. $x^2 - 6x + 9$

c. $4x^2 + 4x + 1$

d. $4x^2 - 49$

a.	c.
b.	d.

4-53. For each function below, make a table of x- and y-values and then graph the function on graph paper. Label each graph with its equation. [Homework Help](#) 

$$y = x^2$$

x	y
0	
-2	
-1	
0	
1	
2	

$$y = -x^2$$

x	y
0	
-2	
-1	
0	
1	
2	

a. Graph of $y = x^2$

b. Graph of $y = -x^2$

c. Compare the graphs. What do you notice?

d. For the graph of $y = x^2$, estimate the x-values corresponding to $y = 5$.

e. For the graph of $y = -x^2$, estimate the x-values corresponding to $y = -10$.

