

# Review Answers

1) Yes, ratio:  $3/5$  and congruent angles;  
 $JMLK \sim QPON$

2) Yes, ratio:  $4/5$  and congruent angles;  
 $ABCD \sim FGHE$

3)  $x = 6$ ,  $z = 10$ ,  $y = 8$

4)  $z = 15/2$ ,  $y = 9/2$ ,  $x = 16$

5)  $4/5$

6)  $x/y = -13/5$

6b)  $x = \pm 5\sqrt{6}$

7)  $x = \pm 6$

8)  $x = \pm 6\sqrt{2}$

9)  $x = 2$

10)  $x = -7$

11) 
$$x = \frac{2 \pm 2\sqrt{7}}{3}$$

12)  $AE = 32x/5$ ,  
 $CD = 25x/4$