Name : _____ Score : _____

Parallel and Perpendicular Lines

Sheet 5

1) A line v passing through the point (–9, –1) and parallel to the line w which has a slope of –3. Find the equation of the line v.

_____

2) Write the equation of the line that is perpendicular to the line –3x + 21y + 24 = 0 and passes thro

_____

3) The line r passe to the line s whose slope is $\frac{7}{6}$. Find

_____

4) Find the equati y + 15 = 0 and passes through the poi

_____

5) Find the equation of the line that is perpendicular to the line joining the points (–2, 8) and (4, 9) and passes through the point (1, –1).

_____

Name : _____ Score : _____

Answer key

Parallel and Perpendicular Lines

Sheet 5

1) A line v passing through the point (–9, –1) and parallel to the line w which has a slope of –3. Find the equation of the line v.

3x + y = –28

2) Write the equation of the line that is perpendicular to the line –3x + 21y + 24 = 0 and passes thro

7x + y

3) The line r passe to the line s whose slope is $\frac{7}{6}$. Find

6x + 7y

4) Find the equati $y + 15 = 0$ and passes through the poi

5x + 4y = –67

5) Find the equation of the line that is perpendicular to the line joining the points (–2, 8) and (4, 9) and passes through the point (1, –1).

6x + y = 5