Name:
CC Geometry Homework

Equations of Lines (Slope Intercept Form)

1) What is the $y$-intercept of the line whose equation is $3 y=6 x+12$ ?
A) 1
B) 2
C) 3
D) 4
2) Which statement describes the graph of $x=4$ ?
A) It has a slope of 4 .
B) It is parallel to the $y$-axis.
C) It passes through the point $(0,4)$.
D) It is parallel to the $x$-axis.
3) What is the slope of a line that is perpendicular to the line whose equation is $y=-\frac{4}{5} x-3$ ?
A) $-\frac{5}{4}$
B) $\frac{4}{5}$
C) $-\frac{4}{5}$
D) $\frac{5}{4}$
4) What is the equation of a line parallel to the line whose equation is $3 y=2 x+3$ ?
A) $2 y=3 x+3$
B) $3 y=-2 x+1$
C) $y=\frac{2}{3} x+3$
D) $y=\frac{3}{2} x-3$
5) What is the slope of a line that is perpendicular to the line whose equation is $7 x-3 y=10$ ?
A) $-\frac{3}{7}$
B) $\frac{7}{5}$
C) $-\frac{7}{3}$
D) $\frac{3}{7}$
6) If a line is horizontal, its slope is
A) 1
C) undefined
B) 0
D) negative
7) The equations of two lines are $x-5 y=6$ and $x+5 y=1$. Determine whether these lines are parallel, perpendicular, or neither.
8) The equations of two lines are $3 y=2 x+6$ and $2 y+3 x=9$. Determine whether these lines are parallel, perpendicular, or neither.
9) The equations of two lines are $x+2 y=8$ and $y=-\frac{1}{2} x+5$. Determine whether these lines are parallel, perpendicular, or neither.
10) $D$
11) $B$
12) $D$
13) C
14) A
15) B
16) neither
17) perpendicular
18) parallel
