Name_____

1. Simplify: $16-(-27)$	2. Evaluate: $-\left\|-2\bullet\dfrac{1}{2}\right\|$

3. Simplify: $2+4[6(8-3)\div10]$	4. Write as a fraction:
	
	   a) 6.83
	
	   b) $-8\dfrac{2}{3}$

5.   Write as an algebraic expression:
 	
   the product of five and a number
	6. Write as an algebraic expression:
	
	   the quotient of a number and x

7.   Write as an algebraic expression:
 	
   four less than twice a number
	8. Write as an algebraic expression:
	
	   3 times a number subtracted from 5

9. Evaluate: $\left(\dfrac{3}{4}\right)^2$	10. Evaluate: $\dfrac{9(-12+7)}{6+9\div3}$

11. Evaluate: $p = 4$, $q = -3$, $r = -1$ $p^2 + 2qr$	12. Put a box around each term: $-2xy + 4y^2 - x + 8$
13. Circle each numerical coefficient: $-2xy + 4y^2 - x + 8$	14. Combine like terms: $2x^3 + 3x^2 - 4x + 5x^2 - 8x^3$
15. Solve: $\quad 6y - 19 = -14 + 7y$	16. Solve: $\quad 78 = 2y - 4(5 - 3y)$
17. Solve: $\dfrac{1}{3}(6x - 9) = 5x - 3x - 3$	18. Solve: $\quad 4 - 3(2x - 5) = -8x + 2x + 4$
19. Solve: $\quad \dfrac{4x}{3} = \dfrac{8}{2}$	20. Solve: $\quad \dfrac{4}{x + 2} = \dfrac{3}{2x - 1}$

21. Twice a number, decreased by 5, is the same as the number increased by 10.

22. In 6 days, Andy made sales of $15,000. At this rate, how many days will it take him to reach sales of $50,000?

23. What percent of 34 is 12?

24. Three times the sum of a number and 7 is greater than 13 less than 5 times the number. Find the number.

25. y varies directly as x. If $y = 6$ when $x = 8$, find y when $x = 12$

26. y varies inversely as x. If $y = 4$ when $x = 6$, find x when $y = 12$.

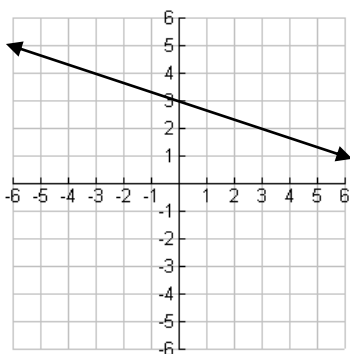|	
27. **Find the slope of the line containing the given points.** $(-2, 3) (4 , - 5)$	28. **Determine if the pair of lines are parallel.** $$3y + 10 = 2x$$ $$2y - 3x = 0$$
29. **Write the equation in Slope-Intercept Form. Give the slope and the y-intercept.** $3x - y = 2$ Slope-Intercept Form_____ Slope_____y-intercept_____	30. **The slope and the y-intercept are given. Write the equation of the line in slope-intercept form.** $$\text{slope} = \frac{-1}{3}$$ $$y - \text{intercept} = 5$$
31. Slope: $m =$ _____ y-intercept: $b =$ _____ Slope-Intercept Form: _____	32. **Use the slope and the y-intercept to graph each line.** $$-3y = 6x - 9$$