Assignment 2-1: Variables and Substitution

Evaluate the following expressions. Show all of your work and circle your final answer.

1. $m + 6 \; if \; m = 10$

$10+6$

(16)

2. $m + 6 \; if \; m = -10$

$-10+6$

(-4)

3. $m - 4 \; if \; m = -3$

$-3-4$

(-7)

A number next to a letter means to multiply

4. $\frac{y}{8} \; if \; y = 32$

$\frac{32}{8} = (4)$

5. $\frac{a}{4} \; if \; a = -28$

$\frac{-28}{4} = (-7)$

6. $5x \; if \; x = -4$

$5(-4)$

(-20)

7. $3y + 2 \; if \; y = 6$

$3(6)+2$

$18+2$

(20)

8. $-5m + 6 \; if \; m = 2$

$-5(2)+6$

$-10+6$

(-4)

9. $4x + 6 \; if \; x = -3$

$4(-3)+6$

$-12+6$

(-6)

10. $5x - x \; if \; x = 4$

Put a 4 in both places for x

$5(4)-4$

$20-4$

(16)

11. $3x - 4 \; if \; x = -3$

$3(-3)-4$

$-9-4$

(-13)

12. $5y + 2y + 4 \; if \; y = 3$

$5(3)+2(3)+4$

$15+6+4$

(25)

13. $-5m - 4 \; if \; m = -3$

$-5(-3)-4$

$15-4$

(11)

14. $2x - 5x + 1 \ if \ x = 3$

$2(3)-5(3)+1$

$6-15+1$

$-9+1$

-8

15. $5 - y \ if \ y = -5$

$5-(-5)$

10

16. $y + 2y + 5y \ if \ y = 7$

$7+2(7)+5(7)$

$7+14+35$

$21+35$

56

17. $x + 5x - 12 \ if \ x = 3$

$3+5(3)-12$

$3+15-12$

$18-12$

6

18. $5x - 12 \ if \ x = -3$

$5(-3)-12$

$-15-12$

-27

19. $3y - 5y + 10 \ if \ y = 3$

$3(3)-5(3)+10$

$9-15+10$

$-6+10$

4

20. $a + a \ if \ a = 5$

$5+5$

10