

Math 94 Review for Test 1: Sections 2.1 - 2.7, 3.1, 3.2 ANSWERS

1a) $-2x - 6y$

1b) $-x + 5$

2. $-2x + 1$

3a) $2x + 5y$

3b) $4x - 10$

4a) $y = -3$

4b) $t = -120$

5a) $x = \frac{5}{4}$

5b) $x = -\frac{5}{6}$

6a) $y = -4$

6b) $z = 16$

7a) $x = -30$

7b) $x = 8$

8a) $x = 3$

8b) $w = -2$

9a) $w = 2$

9b) $x = 30$

10a) $z = -10$

10b) $x = \frac{15}{4}$

11. $r = \frac{25}{p}$

12. $g = \frac{2s}{t^2}$

13a) $y = \frac{3 + 5x}{2}$

13b) $w = \frac{5 - 3t}{4t}$

14a) $x = \frac{12}{7}$

14b) $x = \frac{27}{5}$

15. 70 feet

16a) $x =$ Carl's savings; 16b) $x + 4000 =$ Andy's savings

17a) $x =$ son's age; 17b) $5x - 1 =$ Lisa's age

18. Equation: $x + x - 60 = 500$, $x =$ Tony's earnings

Answer: Tony earned \$280 and Pat earned \$220.

19. Equation: $x + 2x - 3 = 60$, $x =$ Larry's age

Answer: Larry is 21 years old and Jerry is 39 years old.

20. Equation: $280 - 4x = 228$, $x =$ number of weeks

Answers: The class will be down to 228 students in 13 weeks.

21. Equation: $2(2x - 3) + 2x = 90$, $x =$ width

Answer: The width is 16 feet and the length is 29 feet.

22. Equation: $3x + 4(x + 2) = 64$, $x =$ width

Answer: The width of each rectangle is 8 feet and the length is 10 feet.