

math 098 - winter 2017 key

1. $6x^2 - 4x - 2$

2. $3mn^2 - 2 - \frac{1}{m^2n^2}$

3. $y - 5$

4. $\frac{k-4}{k(k+4)}$

5. $\frac{m^7}{n^6}$

6. $\frac{b^9}{3a^8}$

7. $-\frac{1}{6}$

8. $x + 5$

9. $5t^6\sqrt{2t}$

10. 3.9671×10^5

11. a) $(5r+2)(r+2)$

11. b) $(b+2)(a+5)$

12. $5/2$

13. no solution

14. $t = 5$ or -3

15. $5/3, -3$

16. $A = \frac{n(B+d)}{2}$

17. $x = -1$ or $5/2$

18. $x \geq -3$

19. a) $(1, 0)$

$(3, 0)$

b) $(0, 3)$

c) $(2, -1)$

d)

25. $(3, -2)$

26. $S + F = 40$

$70S + 90F = 3100$

27. 13.5 ft

28. 57 mph
62 mph

20. a) $(-\frac{1}{4}, 0)$

b) $(0, \frac{1}{3})$

c) $y = \frac{4}{3}x + \frac{1}{3}$

21. \$8.33

22. $x = 4$

23. a) $-\frac{11}{20} \text{ } ^\circ\text{C}/\text{ft}$

b) For every 20 feet below the surface the temperature drops by 11°C .

24. a) $-\frac{5}{3}$

b) $y = -5/3x + 1$

c) $3/5$