

WINTER 09 MATH 098 A

1. $p > -2$

2. $\bullet 9d^2 + 3d - 8$

$\bullet -7n^2 + 7n - 3$

$25 - x^4$; $9y^2 - 12y + 4$

$12a^6b^6$; $\frac{2x^3z^2}{y^9}$

3. $-4w + 3$; $x + 5$

$\bullet \frac{9}{x+7}$

4. $(x-7)(x+10)$; $(5w+3)(w-2)$

$5b(b-3)(b-7)$; $(9-z)(9+z)$

5. $x = -15$

6. $q = -3, 8$

$n = \frac{5}{3}, -\frac{5}{3}$

7. $x = 1.17$ or -1.28

8. $(3x)^{1/2}$

9. $6x^3y\sqrt{5y}$

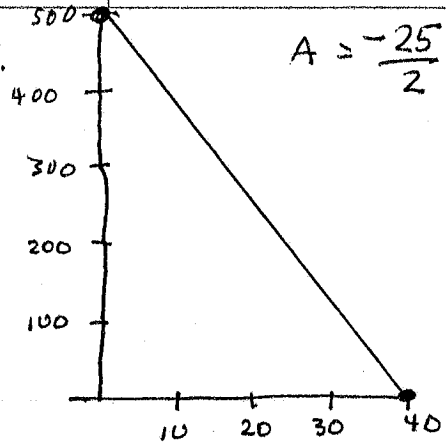
$4\sqrt{5} - 5$

10. $y = 45$

11. $w = 60$ yds

$L = 130$ yds

12.



$A = -\frac{25}{2}x + 500$

b) \$125

c) 10 weeks

13. $y = -\frac{3}{2}x + 6$

14. $-\frac{7}{3}$

15. $x + y = 552$

$30x + 45y = 18270$

16. $x = 6$ $y = -1$

17. 20.88 ft.

18. 58.1 miles

19. 33.51 ft^3 , 249.23 ft^3

20. $(-2, 0)$ and $(5, 0)$ x int.
y int $\rightarrow (0, -10)$ and $(1.5, -12.25)$
vertex

22. a) 4 computers

b) A

c) \$500

d) $(0, 500)$

e) 50 \$/computers.

f) for every additional computer sold your total earnings increase by \$50

Bonus = \$460,000