

ALG2B

Final Exam Review

Semester 1

Ch 5

1. $(x-3)(x+2)$

2. $(x-5)^2$

3. $(2x-3)(2x+3)$

4. $(2x-3)(3x+1)$

5. $x = \frac{1}{4}$

6. $x = -6$

$x = -7$

7. $3x^2 - 13x + 4 = 0$

8. $4x^2 + 4x + 1 = 0$

Ch 6 (1-8)

1a) $y = 6x^3 - 3x^2 + 2x$

2a) good as is

3c) $y = x^4 + 3x^3 - 2x^2 + 6$

a) cubic

a) linear

a) quartic

b) trinomial

b) binomial

b) polynomial

4. $y = x^3 - 7x^2$

5. $y = x^3 - 2x^2 - 5x + 6$

6. $y = -x^4$

7. $y = x^3$

8. $y = 2x^2$

$a = -1$ negative

$a = 1$ positive

$a = 2$ positive

$n = 4$ even

$n = 3$ odd

$n = 2$ even

EB: $\downarrow$

EB: $\uparrow$

EB: $\uparrow \uparrow$