

[EXAM II IN-CLASS REVIEW]

DISCLAIMER: THIS IS NOT A PRACTICE TEST - ITS ONLY PURPOSE IS TO GIVE YOU A JUMP START ON YOUR OWN STUDIES! YOU CAN'T BE MAD AT ME IF A QUESTION SHOWS UP ON YOUR TEST THAT IS NOT COVERED ON THIS REVIEW.

[1.] FACTOR THE FOLLOWING POLYNOMIALS.

a. $x^2 - 6x - 91$

d. $49x^2 - 64$

b. $18x^4 - 27x^3$

e. $5x^2 + 21x + 4$

c. $6x^3 - 3x^2 + 10x - 5$

f. $125x^4 - 27x$

[2.] GRAPH $m(x) = -\frac{1}{2}(x-2)^2 + 7$

[3.] FIND THE INTERVALS ON WHICH $p(x) = -2(x+3)^2 - 4$ IS INCREASING & DECREASING.

[4.] FIND THE VERTEX FOR THE FOLLOWING

a. $g(x) = -(x+11.2)^2 - 5.8$

b. $l(x) = 3x^2 - 12x + 10$

[5.] SOLVE THE FOLLOWING USING ANY METHOD

a. $2x^2 - 24x = 0$

e. $5x^2 - 10x + 3 = 16$

b. $8x^2 - 10x = 45$

f. $8x^3 - 12x^2 - 24x = 0$

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

g. $4x^3 - 10x^2 + 8x - 20 = 0$

d. $3(x-15)^2 = 60$

h. $15x^2 - x - 2 = 0$

i. $\frac{\quad}{\quad}x^2 + \frac{\quad}{\quad}x - \frac{\quad}{\quad} = \frac{\quad}{\quad}$

PICK YOUR 4 FAVORITE NUMBERS

& PUT THEM HERE. NOW SOLVE.

[6.] MAKE A NOTECARD.