

Test 4 Review

Time: 50 minutes

Number of questions: ??

Example 1: Multiply.

a. $(24x^5)(6x^7)(5x^3)$

b. $7x(x^3 + 2x^2 - 3x + 6)$

c. $(x - 5)(3x + 7)$

Example 2: Expand

a. $(x + 7)^2$

b. $(x - 9)^2$

Example 3: Factor completely.

a. $72x^4y^3 - 45x^2y^4$

b. $7m + 7n - mn - n^2$

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c. $64x^2 - 81$

d. $25x^2 - 49y^2$

e. $x^2 + 12x + 36$

f. $x^2 - 16x + 64$

g. $x^2 - 9x + 18$

h. $y^2 + 15y + 56$

i. $3x^2 + 8x + 5$

Example 4: Solve by factoring.

a. $x^2 - x - 20 = 0$

b. $x^2 + 16x - 36 = 0$