

070417 Quiz

1) Gina expanded a product of two factors. This was one of the lines in Gina's work.

$$\begin{array}{c} \vdots \\ 2x(x+4) + 3(x+4) \\ \vdots \end{array}$$

Write the product that Gina was expanding. _____

2) Write the following function definitions in factored form:

a) $y = x^2 - 2x + 12$

b) $y = x^2 - 11x + 18$

c) $y = -x^2 - 4x + 12$

d) $y = 6x^2 + 17x + 5$

3) $y = x^2 - 10x - 24$ can be rewritten as $(rx + s)(tx + u)$ for certain numbers r , s , t , and u .

a) What is the product of s and u ? _____ b) What is the product of r and t ? _____

4) Expand each function definition. Show your work:

a) $y = (2x + 7)(x - 3)$

b) $y = (x + 2)(x + 4)$

c) $y = (x - 1)(x - 8)$

5) Here are graphs of two quadratic functions. Write the definition of each function in expanded form.

