Name: _____

Date:		
Date.		

Learning Goal 3.2	Factoring, including the factor theorem and the remainder
Learning Goal 5.2	theorem.

More Questions

- 1. For what values of a could x a be a factor of $f(x) = x^5 + 6x^4 5x^3 30x^2 + 4x + 24$.
- 2. Eliminate any binomial that is not a factor of f(x).
- 3. Factor f(x).
- 4. Factor $3y^3 + 13y^2 16$ fully.
- 5. Determine the value(s) of k so that the binomial is a factor of the polynomial.

a.
$$P(x) = x^3 + 5x^2 + kx + 6$$

 $x + 2$

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$$P(x) = x^3 + 5x^2 + kx + 6$$

b. $P(x) = kx^3 - 10x^2 + 2x + 3$
 $x + 2$

6. The product of four integers is $x^4 + 7x^3 + 7x^2 - 15x$, where x is one of the integers. What are the possible expressions for the other three integers?