

Factor each of the following:

1)  $x^2 + 3x - 40$

2)  $x^2 - 3x$

3)  $m^2 + m - 2$

4)  $b^2 + 7b + 12$

5)  $5n^3 - 10n^2$

6)  $v^2 - 2v - 48$

7)  $a^2 - 7a + 10$

8)  $n^2 + n - 72$

**Factor the following:**

1)  $2x^2 + 3x - 9$

2)  $5x^2 + 19x + 12$

3)  $2x^2 + 5x + 2$

4)  $5n^2 - 18n + 9$

5)  $5x^2 - 12x + 4$

**FACTOR (Look for GCF 1<sup>st</sup>)**

1. $x^2 - 225$	2. $3x^2 - 7x - 6$
3. $x^3 + 5x^2 - 4x - 20$	4. $x^2 - 196$
5. $8x^2 - 200$	6. $x^3 - 8x^2 - 9x + 72$
7. $16x^2 - 100$	8. $x^3 - 2x^2 - 8x + 16$

**Factor completely:**

1.  $f(x) = 64x^3 - 1$

2.  $f(x) = x^3 + 125$

3.  $f(x) = 8x^3 - 27$

4.  $f(x) = 2x^3 + 250$

