

**Factor**  
**Polynomials**

1. *factor*  $36x^3 + 33x^2 + 6x$

2. *factor*  $24x^3 - 6x^2 + 8x - 2$

3. *factor*  $3x^4 - 3x^3 - 36x^2$

4. *factor*  $x^3 - 3x^2 - 10x$

5. *factor*  $x^3 - 2x^2 + x$

6. *factor*  $-5h^4 - 15h^3 - 10h^2$

7. *factor*  $-4k^4 - 20k^3 + 24k^2$

8. *factor*  $2x^3 - 6x^2 - 20x$

9. *factor*  $-3x^3 + 3x^2 + 6x$

10. *factor*  $3h^4 + 24h^3 + 21h^2$

**Answers****Factor****Polynomials**

1.  $3x(4x + 1)(3x + 2)$

2.  $2(4x - 1)(3x^2 + 1)$

3.  $3x^2(x + 3)(x - 4)$

4.  $x(x + 2)(x - 5)$

5.  $x(x - 1)^2$

6.  $-5h^2(h + 1)(h + 2)$

7.  $-4k^2(k - 1)(k + 6)$

8.  $2x(x + 2)(x - 5)$

9.  $-3x(x + 1)(x - 2)$

10.  $3h^2(h + 1)(h + 7)$