*Algebra 2.1 Factoring*

Special Cases to Factor

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1.** | *x*2 – 9 | **2.** | *n*2 *- 4* | **3.** | 4*m* 2- 1 |
| **4.** | 9*x* 2 *–* 4 | **5.** | 16*c*2- 49 |  |  |
| **6.** | *x*2 *-* 22 *x* + 121 | **7.** | 4*x*2*+* 12*x* + 9 | **8.** | 9*x* 2 - 30*x* + 25 |

Zero-Product Property

**9.** (*x* **+** 5)(*x* - 3) = 0 **10.** (*x* - 2)(*x* **+** 9) = 0

**11.** (2*n* **+** 3)(*n* - 4) = 0 **12.** (*x* **+** 7)(4*x* - 5) = 0

Solve by factoring**.**

**10.** *x*2 **+** 5*x* **+** 6 = 0 **11.** *b*2 - 7*b* - 18 = 0 **12.** *r*2 - 4 = 0

1**3.** 2*x*2 **+** 8*x* – 10 = 0