**Name:**

**Chapter 8 Practice Quiz**

**Find each product.**

1. (2*a* – *b*)(*a* – 3*b*)
2. (2*x* – 3)(2$x^{2}$ – 5*x* + 1)
3. $\left(3p – 2r\right)^{2}$
4. (3$x^{2}$– 4*y*)(4$x^{2}$+ 3*y*)

**Factor each polynomial.**

1. 24$t^{2}$ – 32$t^{4}$ – 16$t^{3}$
2. 2$n^{2}$ + 2*nt* + 5*nt* + 5$t^{2}$
3. $m^{2}$ + 11*m* + 30
4. $x^{2}$ – 5*x* – 24
5. 3$x^{2}$ – 14*x* – 5
6. 2$a^{2}$ + 9*a* + 7

**Solve each equation.**

1. (3*c* + 1)(4*c* – 5) = 0
2. $x^{2}$ = –5*x*
3. $p^{2}$ = 12*p* – 27
4. 2$k^{2}$ – 15 = –3*k*