

(1) $3c+1=0$ $4c-5=0$
 $c = -1/3$ $c = 5/4$

(2) $x^2+5x=0$
 $x(x+5)=0$
 $x=0$ $x+5=0$
 $x=-5$

Name: Key

Chapter 8 Practice Quiz

Find each product.

- $(2a-b)(a-3b)$
- $(2x-3)(2x^2-5x+1)$
- $(3p-2r)^2$
- $(3x^2-4y)(4x^2+3y)$

(1) $2a-b$

$2a^2$	$-6ab$
$-3ab$	$3b^2$

 $2a^2 - 9ab + 3b^2$

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

$4x^3$	$10x^2$	$+2x$
-3	$-15x$	-3

 $4x^3 - 16x^2 - 13x - 3$

Factor each polynomial.

- $24t^2 - 32t^4 - 16t^3$
- $2n^2 + 2nt + 5nt + 5t^2$
- $m^2 + 11m + 30$
- $x^2 - 5x - 24$
- $3x^2 - 14x - 5$
- $2a^2 + 9a + 7$

(3) $3p-2r$

$9p^2$	$-6pr$
$-6pr$	$4r^2$

 $9p^2 - 12pr + 4r^2$

(4) $3x^2-4y$

$12x^4$	$-16x^2y$
$9x^2y$	$-12y^2$

 $12x^4 - 7x^2y + 12y^2$

Solve each equation.

- $(3c+1)(4c-5)=0$
- $x^2=-5x$
- $p^2=12p-27$
- $2k^2-15=-3k$

(5) GCF: $8t^2$
 $8t^2(3-4t^2-2t)$

(6) $2n^2+2nt+5nt+5t^2$
 $2n(n+t)+5t(n+t)$
 $(2n+5t)(n+t)$

(7) $m+5$

m^2	$6m$
$5m$	30

 $(m+5)(m+6)$

(8)

x^2	3
-8	-24

 $(x-8)(x+3)$

(9)

$3x^2$	$-15x$
x	-5

 $(x-5)(3x+1)$

(10)

$2a^2$	$2a$
$7a$	7

 $(a+1)(2a+7)$