

**MTH 5**  
**Test 4 Review Problems Answers**

1.    **(a)**  $6pq(4p - 3q)(4p + 3q)$                       **(b)**  $92x-y(3x^2 - 4y)(3x^2 + 4y)(9x^4 + 16y^2)$   
      **(c)**  $2a(2a-7b)(3a+5b)$                       **(d)**  $(2x-y)(x+3y)$   
      **(e)**  $(x-5y)(x+5y)(2x-7y)$
2. **(c)**  $5c + 2d$                       3. **(e)**  $x - 15$                       4. **(a)**  $2x - 3$
5.  $\{3, -3\}$                               6.  $y = 0$  or  $y = -2$
7.  $\left\{0, \frac{3}{2}, 5\right\}$                               8.  $\left\{-\frac{4}{3}, \frac{1}{2}\right\}$
9. zero solutions                      10. one real number solution
11. **(a)** downwards    **(b)**  $\left(\frac{11}{3}, \frac{100}{3}\right)$                       **(c)**  $(0, -7)$     **(d)**  $\left(\frac{1}{3}, 0\right)$  and  $(7, 0)$
12.  $(x-4)^2+31$
13.  $2(x-3)^2-17$