

## M3 Factoring Review



kizgnki7

1. Factor:  $25a^2 - 4$

A.  $(5a - 1)(5a - 4)$

B.  $(5a + 2)(5a + 2)$

C.  $(5a - 2)(5a + 2)$

D.  $(5a + 1)(5a - 4)$

2. Factor:  $r^2 + 6r - 72$

A.  $(r - 12)(r - 6)$

B.  $(r + 12)(r - 6)$

C.  $(r - 9)(r + 8)$

D.  $(r + 12)(r + 6)$

3. Factor:  $3q^2 + q - 2$

A.  $(3q - 1)(q - 1)$

B.  $(3q + 1)(q - 1)$

C.  $(3q + 2)(q - 1)$

D.  $(3q - 2)(q + 1)$

4. Factor:  $2x^2 + 13x - 15$

A.  $(2x + 15)(x - 1)$

B.  $(2x + 3)(x - 5)$

C.  $(2x + 5)(x - 3)$

D.  $(2x - 1)(x - 15)$

5. Find the rational root of the following equation:

$$2x^3 - x^2 - x - 3 = 0$$

A.  $-2$

B.  $\frac{2}{3}$

C.  $\frac{3}{2}$

D.  $3$

6. Factored completely, the expression  $12x^4 + 10x^3 - 12x^2$  is equivalent to

A.  $x^2(4x + 6)(3x - 2)$

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

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

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

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1.  
Answer: C  
Objective: A.SSE.03A
2.  
Answer: B  
Objective: A.SSE.03A
3.  
Answer: D  
Objective: A.SSE.03A
4.  
Answer: A  
Objective: A.SSE.03A
5.  
Answer: C  
Objective: A.APR.03
6.  
Answer: D