HEISENBERG TUTORIAL CENTER

AY 2021-2022

MATHEMATICS 8

Name: _____ Score: _____

Lesson: Factoring Polynomials-Quadratic Expressions 2

Factor each completely.

1) $14x^2 + 138x + 108$
   A) Not factorable
   B) $14(x+6)(x-9)$
   C) $2(7x+6)(x+9)$
   D) $(7x+5)(x+9)$

2) $3n^2 - 13n - 10$
   A) $(2n-3)(n-9)$
   B) $(5n-9)(n+3)$
   C) $(3n+2)(n-5)$
   D) $(3n-2)(n-5)$

3) $9x^2 + 39x + 36$
   A) $3(3x-4)(x+3)$
   B) $3(3x+4)(x+3)$
   C) $(3x+4)(x+7)$
   D) $3(x+4)(x+1)$

4) $6a^2 - 3a - 9$
   A) $(5a-7)(a+7)$
   B) $3(2a-3)(a+1)$
   C) $6(2a+1)(a+5)$
   D) $3(2a-3)(a-1)$

5) $7x^2 + 30x - 25$
   A) $2(5x-8)(x-1)$
   B) $7(x-5)^2$
   C) $(7x-5)(x+5)$
   D) $(x-5)(7x+5)$

6) $5p^2 + 39p - 8$
   A) $(5p-1)(p+8)$
   B) $(5p+1)(p+8)$
   C) $(3p-5)(p+2)$
   D) $(p-1)(5p-8)$

7) $3x^2 - 40x + 100$
   A) $(3x-10)(x-10)$
   B) $(7x+5)(x+1)$
   C) $(5x-4)(x-5)$
   D) $(3x-10)(x+10)$

8) $2x^2 + 9x - 81$
   A) $(3x-10)(x+2)$
   B) Not factorable
   C) $(2x-9)(x+9)$
   D) $(2x-9)(x-9)$

9) $7n^2 - 18n - 40$
   A) $(7n+10)(n-4)$
   B) $6(5n-3)(n-1)$
   C) $2(2n+1)(n+6)$
   D) $(3n+10)(n-4)$

10) $35n^2 + 395n + 450$
   A) $5(7n-9)(n+10)$
   B) $5(7n+9)(n+10)$
   C) $6(7n-3)(n-6)$
   D) $5(n+9)(7n-10)$

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LIVEWORKSHEETS