Algebra I Practice A.SSE.A.2: Factoring the Difference of Perfect Squares 2

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Factor:

1. $4x^2 - 9y^2$

2. $16x^2 - 25y^2$

3. $25x^2 - 64y^2$

4. $36x^2 - 49y^2$

5. $49x^2 - 36y^2$

6. Factor completely $80x^2 - 125$.

   [A] $5(16x - 25)(16x + 25)$

   [B] $(4x - 25)(20x + 5)$

   [C] $(20x - 5)(4x + 25)$

   [D] $5(4x - 5)(4x + 5)$

7. Factor completely $32x^2 - 392$.

   [A] $(2x - 56)(16x + 7)$

   [B] $(16x - 7)(2x + 56)$

   [C] $8(2x - 7)(2x + 7)$

   [D] $8(4x - 49)(4x + 49)$

8. Factor completely $100x^2 - 144$.

   [A] $4(5x - 6)(5x + 6)$ [B] $(5x - 24)(20x + 6)$

   [C] $(20x - 6)(5x + 24)$

   [D] $4(25x - 36)(25x + 36)$

9. Factor completely $24x^2 - 294$.

   [A] $(12x - 7)(2x + 42)$

   [B] $(2x - 42)(12x + 7)$

   [C] $6(4x - 49)(4x + 49)$

   [D] $6(2x - 7)(2x + 7)$

10. Factor: $\frac{9}{64}x^2 - \frac{4}{49}$

    [A] $\left(\frac{5}{32}x - \frac{2}{25}\right)\left(\frac{5}{32}x + \frac{2}{25}\right)$

    [B] $\left(\frac{5}{32}x - \frac{2}{25}\right)\left(\frac{5}{32}x - \frac{2}{25}\right)$

    [C] $\left(\frac{3}{8}x - \frac{2}{7}\right)\left(\frac{3}{8}x + \frac{2}{7}\right)$

    [D] $\left(\frac{3}{8}x - \frac{2}{7}\right)\left(\frac{3}{8}x - \frac{2}{7}\right)$

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[1] $(2x+3y)(2x-3y)$

[2] $(4x+5y)(4x-5y)$

[3] $(5x+8y)(5x-8y)$

[4] $(6x+7y)(6x-7y)$

[5] $(7x+6y)(7x-6y)$

[6] D

[7] C

[8] A

[9] D

[10] C