NAME:

- 1. In isosceles trapezoid *JKLM*, leg JK = 7x - 9, base KL = 5x + 3, and leg LM = 2x + 2. Find the value of x.
 - [A] 6 [B] $\frac{11}{5}$ [C] $-\frac{1}{3}$ [D] $-\frac{7}{5}$
- 2. In isosceles trapezoid *JKLM*, leg JK = 5x - 10, base KL = 6x + 2, and leg LM = 2x + 8. Find the value of x.
 - [A] $-\frac{2}{3}$ [B] -12 [C] $\frac{3}{2}$ [D] 6
- 3. In isosceles trapezoid *JKLM*, leg JK = 3x + 6, base KL = 9x - 3, and leg LM = 7x - 9. Find the value of x.
 - [A] $\frac{3}{4}$ [B] $\frac{15}{4}$ [C] $\frac{3}{2}$ [D] -3
- 4. In isosceles trapezoid *JKLM*, leg JK = 9x + 8, base KL = 3x 5, and leg LM = 10x + 6. Find the value of x.
 - [A] $-\frac{11}{7}$ [B] $-\frac{13}{6}$ [C] 2 [D] -14
- 5. In isosceles trapezoid *JKLM*, $\log JK = 6x 5$, base KL = 10x 4, and $\log LM = 4x + 7$. Find the value of x.
 - [A] 1 [B] $\frac{11}{6}$ [C] 6 [D] $-\frac{1}{4}$

- 6. In isosceles trapezoid *JKLM*, leg JK = 5x + 4, base KL = 9x + 8, and leg LM = 2x + 6. Find the value of x.
 - [A] $\frac{10}{3}$ [B] -1 [C] $-\frac{2}{7}$ [D] $\frac{2}{3}$
- 7. In isosceles trapezoid *JKLM*, leg JK = 3x 9, base KL = 8x 2, and leg LM = 7x 10. Find the value of x.
 - [A] $\frac{1}{4}$ [B] $-\frac{7}{5}$ [C] $\frac{19}{4}$ [D] -8
- 8. In isosceles trapezoid *JKLM*, $\log JK = 8x + 5$, base KL = 4x + 7, and $\log LM = 10x + 4$. Find the value of x.
 - [A] 0 [B] $\frac{1}{2}$ [C] $-\frac{1}{2}$ [D] -1
- 9. In isosceles trapezoid *JKLM*, leg JK = 4x 6, base KL = 2x 3, and leg LM = 3x 4. Find the value of x.
 - [A] 1 [B] $\frac{3}{2}$ [C] 2 [D] -10

- [1] <u>B</u>
- [2] D
- [3] B
- [4] <u>C</u>
- [5] <u>C</u>
- [6] D
- [7] <u>A</u>
- [8] B
- [9] <u>C</u>