

Module 5-5 Extra Practice**Combine Operations with Linear Expressions**

Simplify each expression. For Exercises 1–6 and 13–18, write your answer in factored form. (Examples 1–3)

1. $-2(x + 3) + 14x$

2. $-6(x + 7) + 9x$

3. $5(3x - 4) + 21x$

4. $8(-5x + 2) + 46x$

5. $-3(-4x + 8) - 2x$

6. $7(9x + 11) - 35x$

7. $\frac{3}{5}\left(\frac{5}{6}x - 15\right) + \frac{1}{5}x$

8. $\frac{5}{8}x + \frac{2}{3}\left(-\frac{1}{2}x + 24\right)$

9. $\frac{1}{8}\left(24x + \frac{5}{6}\right) + 7x$

10. $\frac{1}{8}\left(\frac{2}{3}x - 32\right) + \frac{3}{4}x$

11. $4x + \frac{4}{5}\left(10x - \frac{1}{3}\right)$

12. $\frac{1}{4}x + \frac{3}{8}\left(\frac{1}{6}x + 16\right)$

13. $\frac{3}{5}(10x - 55) + (7x - 6)$

14. $-\frac{2}{3}(-9x - 15) - (2x - 4)$

15. $\frac{1}{6}(30x - 12) + (5x - 3)$

16. $-\frac{3}{8}(16x + 48) + (20x + 36)$

17. $-\frac{2}{5}(45x + 10) - (-32x + 24)$

18. $\frac{3}{4}(32x - 16) - (6x - 24)$