

1. State the rule for adding two negative numbers and provide an example.
2. State the rule for adding a negative number to a positive number and provide examples.

For exercises 3 – 10, perform the indicated operations.

3. a. $14 + (-8)$ b. $-14 + 8$ c. $-14 + (-8)$ d. $-14 - (-8)$ e. $-14 - 8$

4. a. $-5 - (-3)$ b. $-5 + (-3)$ c. $-5 - 3$ d. $-5 + 3$ e. $5 - (-3)$

5. a. $-25 + 25$ b. $25 - 25$ c. $25 - (-25)$ d. $-25 - (-25)$ e. $-25 + (-25)$

6. a. $\frac{1}{2} + \left(-\frac{2}{3}\right)$ b. $-\frac{1}{2} + \left(\frac{2}{3}\right)$ c. $-\frac{1}{2} + \left(-\frac{2}{3}\right)$ d. $\frac{1}{2} - \left(-\frac{2}{3}\right)$ e. $-\frac{1}{2} - \frac{2}{3}$

PROBLEM RECOGNITION EXERCISES
Addition and Subtraction of Real Numbers

Name: _____ Section: _____

7. a. $3.5 - 7.1$ b. $3.5 - (-7.1)$ c. $-3.5 + 7.1$ d. $-3.5 - (-7.1)$ e. $-3.5 + (-7.1)$

8. a. $6 - 1 + 4 - 5$ b. $6 - (1 + 4) - 5$ c. $6 - (1 + 4 - 5)$ d. $(6 - 1) + (4 - 5)$

9. a. $-100 - 90 - 80$ b. $-100 - (90 - 80)$ c. $-100 + (90 - 80)$ d. $-100 - (90 + 80)$

10. a. $-8 - (-10) + 20^{\circ}$ b. $-8 - (-10 + 20^{\circ})$ c. $[-8 - (-10) + 20]^{\circ}$ d. $[-8 - (-10)]^{\circ} + 20$