Identifying Solutions

Choose the correct solution that best describes each inequality.

1) $5x - 13 < -8$

a) $(-\infty, 1)$ b) $(-1, \infty)$

c) $(-\infty, 1]$ d) $[1, \infty)$

2) $15 \le \dfrac{x + 7}{4}$

a) $(53, \infty)$ b) $(-\infty, 53]$

c) $(-\infty, 53)$ d) $[53, \infty)$

3) $-6 \le 18 + \dfrac{x}{2}$

a) $(-48, \infty)$ b) $(-33, \infty)$

c) $(-\infty, 48]$ d) $(-\infty, 33]$

5) $2x + 23 < -1$

a) $(-\infty, -12]$ b) $(14, \infty)$

c) $(-\infty, 12)$ d) $(-\infty, 14)$

7) $x + 8 > 5x$

a) $(-\infty, -2]$ b) $(-\infty, 38]$

c) $(-\infty, 2)$ d) $[2, \infty)$ c) $(38, \infty)$ d) $(-38, \infty)$

9) $-3 \le \dfrac{x}{3} + 12$

a) $(-45, \infty)$ b) $[-45, \infty)$

c) $(-\infty, -45)$ d) $(-\infty, -45]$

10) $-3 > 21 + 6x$

a) $(-\infty, -4)$ b) $(4, \infty)$

c) $(-\infty, 4]$ d) $(-\infty, -4]$

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