4. Solve the inequalitie $-3<8 \times -2<3$ express your solution sets using interval notation.

$$\left[-\frac{1}{8}, \frac{5}{8}\right]$$

$$\left(-\infty, -\frac{1}{8}\right) \bigcup \left(\frac{5}{8}, +\infty\right)$$

$$\left(-\frac{1}{8}, \frac{5}{8}\right)$$

$$\left(-\infty, -\frac{1}{8}\right] \bigcup \left[\frac{5}{8}, +\infty\right)$$

Solution

Intervals

$$|8x-2|+2<5$$

 $|8x-2|<3$

$$-3-(-2)<8 \times (3-(-2)$$

$$-3 - (-2) < 6 \times (-2)$$

 $-1 < 8 \times (-2)$

$$|8x-2|+2<5$$

$$-\frac{1}{8} < X < \frac{5}{8}$$