

Exercice 1 Compétences du lycée :

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⇨ Résoudre les inéquations ci-dessous.

1. $4x - 7 > 0$
2. $-3x + 6 < 0$ et $-\frac{3}{4}x \leq 0$
3. $2(x - 3) - (3 - 2x) > 4x + 5$
5. $\frac{1}{2}(3x - 5) - \frac{5}{3} \leq 6x + 7$
6. $(2 - x)(3x + 4) \geq (5 - 3x)(x + 1)$

Exercice 2 Compétences du lycée :

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⇨ Déterminer l'intervalle dans lequel est le nombre x .

1. $-3 \leq 3x - 5 \leq 7$
2. $0 < 16 - 4x < 10$
3. $\frac{1}{2} \leq \frac{2}{3}x + \frac{1}{5} \leq 1$

Exercice 3 Compétences du lycée :

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⇨ Déterminer l'intervalle dans lequel est le nombre $x + y$.

1. $3 \leq x \leq 5$ et $-5 \leq y \leq 7$
2. $-2\sqrt{5} \leq x < \sqrt{45}$ et $4\sqrt{20} \leq y \leq 10\sqrt{5}$
3. $\frac{1}{2} < x \leq 2$ et $-5 \leq y < -\frac{3}{2}$

Exercice 4 Compétences du lycée :

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⇨ Déterminer l'intervalle dans lequel est le nombre $x - y$

1. $3 \leq x \leq 5$ et $-5 \leq y \leq 7$
2. $-2\sqrt{5} \leq x < \sqrt{45}$ et $4\sqrt{20} \leq y \leq 10\sqrt{5}$
3. $\frac{1}{2} < x \leq 2$ et $-5 \leq y < -\frac{3}{2}$

Exercice 5 Compétences du lycée :

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⇨ Déterminer l'intervalle dans lequel est le nombre $4x - 2y + 5$

1. $3 \leq x \leq 5$ et $-5 \leq y \leq 7$
2. $-2\sqrt{5} \leq x < \sqrt{45}$ et $4\sqrt{20} \leq y \leq 10\sqrt{5}$
3. $\frac{1}{2} < x \leq 2$ et $-5 \leq y < -\frac{3}{2}$