

■ Solve the following by any method.

[1] $x^2 - x - 6 \geq 0$

[2] $x^2 - 4x - 5 < 0$

■ Solve the following by using split points.

[1] $x^2 + 6x - 7 \geq 0$

[2] $x^2 - 6x + 8 < 0$

[3] $2x^2 + x - 1 \leq 0$

[4] $-x^2 - x + 6 > 0$

[5] $x^3 - 2x^2 - x + 2 < 0$

[6] $x^3 - 7x + 6 \leq 0$

Answers

■ Solve the following by any method.

[1] $x \leq -2 \vee x \geq 3$

[2] $-1 < x < 5$

■ Solve the following by using split points.

[1] $x \leq -7 \vee x \geq 1$

[2] $2 < x < 4$

[3] $-1 \leq x \leq \frac{1}{2}$

[4] $-3 < x < 2$

[5] $x < -1 \vee 1 < x < 2$

[6] $x \leq -3 \vee 1 \leq x \leq 2$