Find the range of x values for which $y = 5 - 8x - 2x^2$ is increasing

$x < -2$

Find the range of x values for which $y = 2x^3 - 15x^2 + 36x$ is increasing

$x < 2, x > 3$

Find the range of x values for which $y = x^3 - 3x^2 + 3x + 3$ is increasing

$x \neq 1$

Find the range of x values for which $y = x^4 + 2x^2$ is increasing

$0 < x$

Find the range of x values for which $y = 1 - 27x + x^3$ is decreasing

$-3 < x < 3$

Find the range of x values for which $y = x^2(x + 3)$ is decreasing

$-2 < x < 0$

Find the range of x values for which $y = x + \frac{25}{x}$ is decreasing

$-5 < x < 5$

Find the range of x values for which $y = x^{\frac{1}{2}} + 9x^{-\frac{1}{2}}$ is decreasing

$0 < x < 9$

Find the range of x values for which $y = 4x - 3x^2$ is increasing

$\frac{4}{3} < x$

Find the range of x values for which $y = 3x^2 + 8x + 2$ is increasing

$\frac{3}{2} < x$

Find the range of x values for which $y = 4 - 2x - x^2$ is decreasing

$x > -1$

Find the range of x values for which $y = 5x - x^2$ is decreasing

$x > 2.5$

Find the range of x values for which $y = x^2 - 9x$ is decreasing

$x < 4.5$

Find the range of x values for which $y = x^4 - 8x^3$ is increasing

$9 < x$

Find the range of x values for which $y = 2x^3 - 3x^2 - 12x$ is decreasing

$-1 < x < 2$