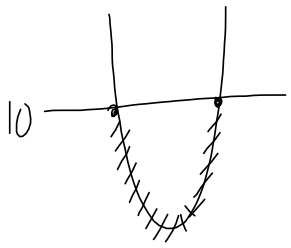
9.2 Solving Quad Inequalities (cont.)

ex) Solve $x^2 - 4x > 10$



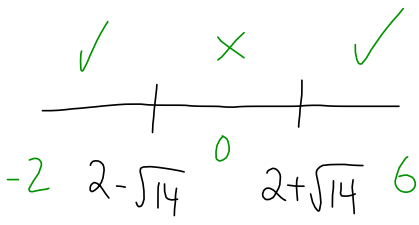
Let: $x^2 - 4x = 10$

$x^2 - 4x - 10 = 0$

Solve by QF or CTS

$x = 2 \pm \sqrt{14}$ $\quad x \doteq 5.7$

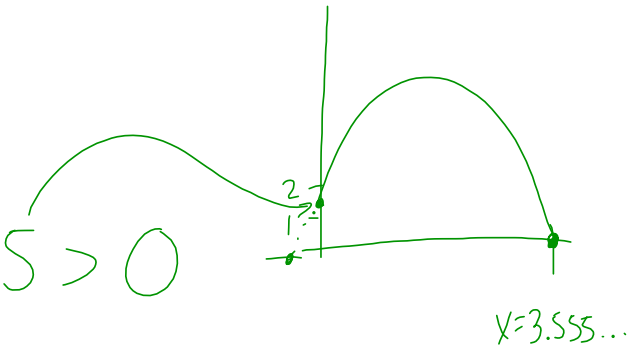
$x \doteq -1.7$



$x < 2-\sqrt{14}$, $x > 2+\sqrt{14}$

$x \in (-\infty, 2-\sqrt{14}) \cup (2+\sqrt{14}, \infty)$

pg. 483 Your Turn



$-4.9t^2 + 17t + 1.5 > 0$

Let $-4.9t^2 + 17t + 1.5 = 0$

Solve using technology.

~~t = neg~~ $t = 3.555...$

In flight $0 < t < 3.555...$

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#13, 15, 17, 20 + sheet