

When is this function increasing?

When is this function increasing?

$$
7<x<12
$$



When is this function increasing?

$$
7<x<15
$$



When is this function increasing?


When is this function increasing?

$$
\begin{gathered}
-7<x<-2 \\
\text { and } \\
1<x<8
\end{gathered}
$$



When is this function increasing?


When is this function increasing?
$1<x<7$


When is this function increasing?


When is this function increasing?
$-5<x<0$


When is this function increasing?


When is this function increasing?

$$
-\infty<x<-2
$$



When is this function decreasing?



When is this function decreasing?
$0<x<7$


When is this function decreasing?


When is this function decreasing?
$-2<x<1$



When is this function decreasing?
$-6<x<1$


When is this function decreasing?


When is this function decreasing?
$0<x<2$



When is this function decreasing?
$3<x<\infty$



## Sketch a function to match.

 increasing$$
-2<x<4
$$

decreasing

$$
4<x<8
$$

constant
$-7<x<2$

Sketch a function to match.
increasing

$$
-\infty<x<0
$$

decreasing

$$
0<x<4
$$

constant
none

