Find the domain of the following in interval notation:

1. $\frac{1}{\sqrt{x+2}}$

2. $\sqrt{3x-1}$

3. $\frac{4}{x^{3}-25x}$

4. $\frac{8x}{x+1}$

5. $\frac{\sqrt{x-1}}{x-5}$

Domain Problems (continued)

Find the Domain of the following:

6. g(x) = $\frac{\sqrt{2x-3}}{x^{2}-4}$

1. $h\left(x\right)= 5^{x}$
2. $x^{2}+x-4$
3. $\frac{x^{2}-25}{\sqrt{x+7}}$

Find the Domain and Range of each

1. $f\left(x\right)= \frac{2}{(x+3)}+4$
2. $h\left(x\right)= -\sqrt{x+3}$
3. $-\left|2x+4\right|$+3
4. f(x) = 4 cos (ɵ) + 2