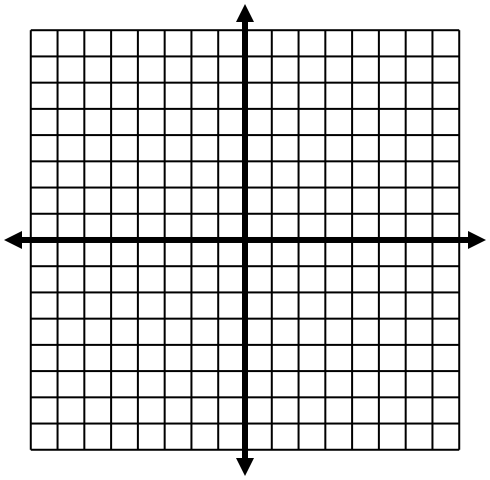
Extra Practice Unit 3 ICM Functions and Limits Name: _____

1. When finding the **domain**, some key items to consider are _____ , _____, and _____.

2. When finding the **range**, some key items to consider are _____ , _____, and _____.

Graph each function, showing the key features and plotting at least 3 points per curve. Also find the requested values. (Hint, see #1 and 2 for help with domain and range.

3. $f(x)=\sqrt{x^2-3x-18}$ x-int:_____
y-int:_____



Removable Disc. : _____

Nonremovable Disc. : _____

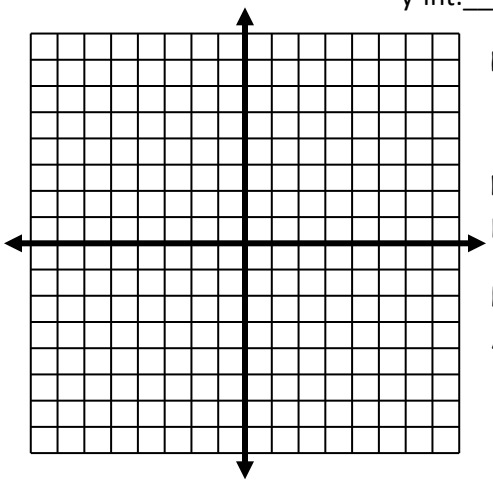
Horizontal Asymp: _____

End Behavior, written as Limits: _____

Domain:_____

Range:_____

4. $f(x)=\dfrac{x^2-6x-16}{x+2}$ x-int:_____
y-int:_____



Removable Disc. : _____

Nonremovable Disc. : _____

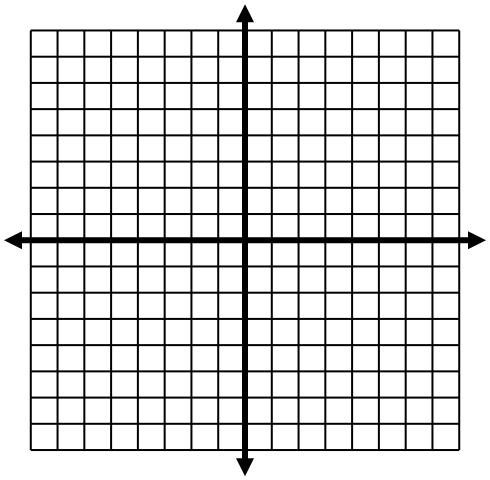
Horizontal Asymp: _____

End Behavior, written as Limits: _____

Domain:_____

Range:_____

5. $f(x)=\dfrac{4x^2-13x-35}{x^2-25}$



Removable Disc. : _____

Nonremovable Disc. : _____

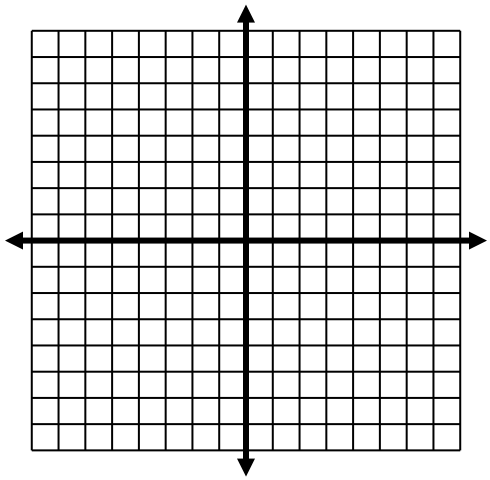
Horizontal Asymp: _____

End Behavior, written as Limits: _____

Domain:_____

Range:_____

6. $f(x)=\dfrac{\sqrt{2x+10}}{x-3}$



Removable Disc. : _____

Nonremovable Disc. : _____

Horizontal Asymp: _____

End Behavior, written as Limits: _____

Domain:_____

Range:_____