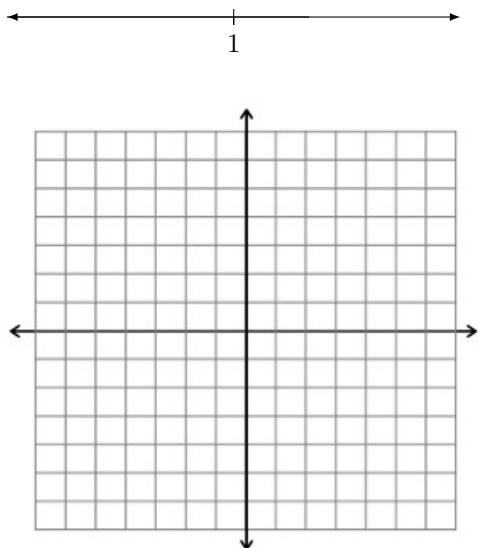


Calculus AB Worksheet 6 : Answers

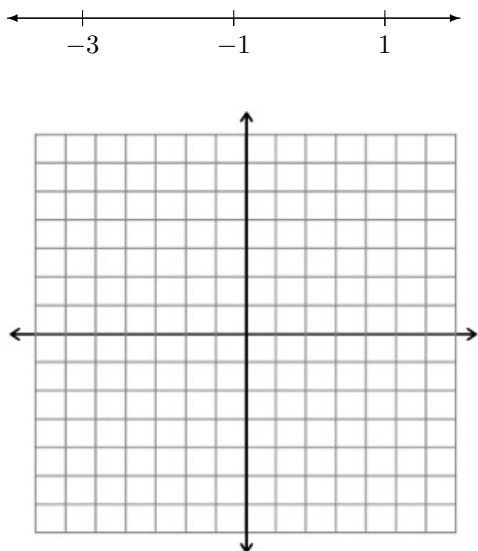
1.

Holes	$(-3, \frac{1}{2})$
Zeros	None
Multiplicities	None
V. A.	$x = 1$
HA or SA	$y = 0$
Y-intercept	$(0, 2)$



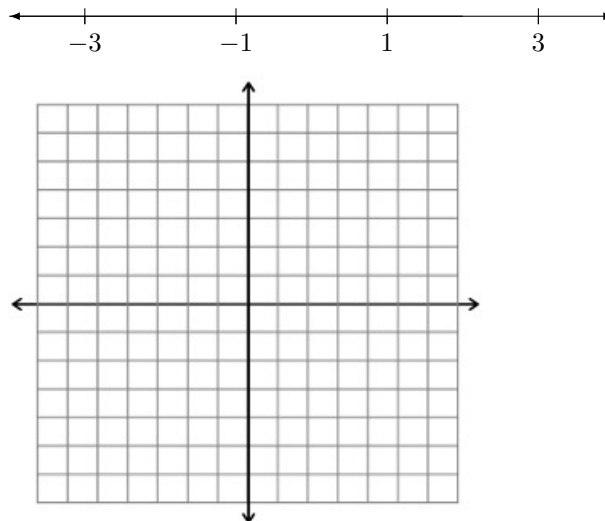
2.

Holes	$(-3, 0)$
Zeros	-1
Multiplicities	1
V. A.	$x = 1$
HA or SA	$y = -2x - 10$
Y-intercept	$(0, 6)$



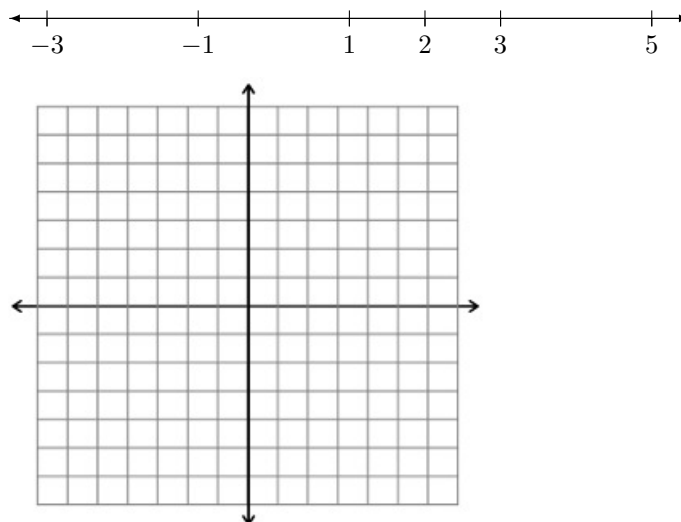
3.

Holes	None
Zeros	3 -1
Multiplicities	1 1
V. A.	$x = -3$ and $x = 1$
HA or SA	$y = 2$
Y-intercept	$(0, 2)$



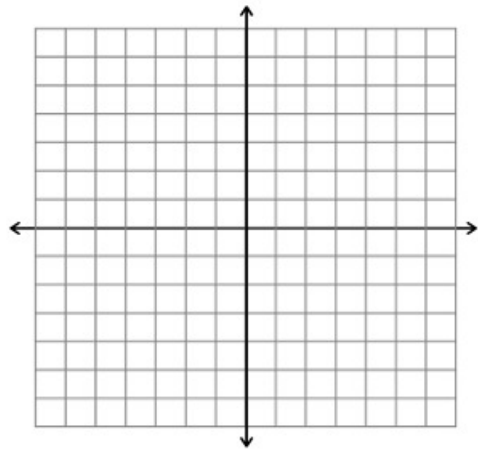
4.

Holes	None
Zeros	3 2 -1 5
Multiplicities	1 1 1 1
V. A.	$x = -3$ and $x = 1$
HA or SA	None
Y-intercept	$(0, 10)$



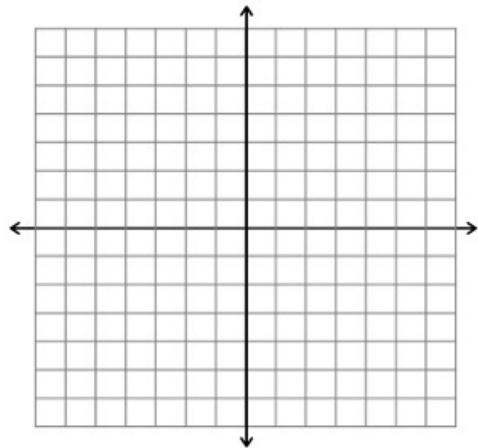
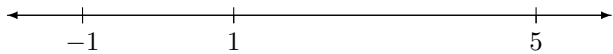
5.

Holes	(1, 0)
Zeros	-1
Multiplicities	2
V. A.	$x = 5$
HA or SA	None
Y-intercept	$(0, \frac{1}{5})$



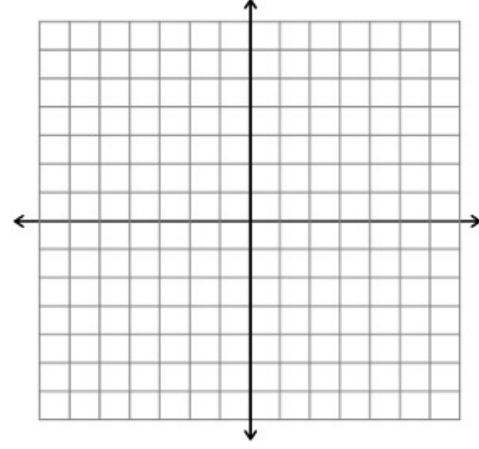
6.

Holes	None
Zeros	-1
Multiplicities	2
V. A.	$x = 1$ and $x = 5$
HA or SA	$y = 0$
Y-intercept	$(0, -\frac{1}{5})$



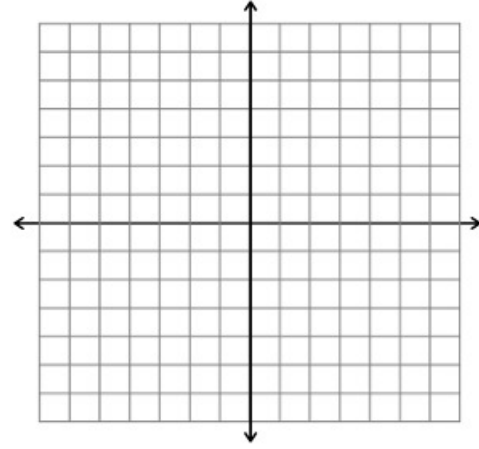
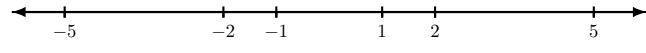
7.

Holes	None			
Zeros	-5	2	-2	-1
Multiplicities	1	1	1	2
V. A.	$x = 5$ and $x = 1$			
HA or SA	None			
Y-intercept	$(0, -24)$			



8.

Holes	None		
Zeros	-5	2	-1
Multiplicities	1	1	2
V. A.	$x = 5, x = 1, x = -2$		
HA or SA	$y = -6$		
Y-intercept	$(0, -6)$		



9. Horizontal asymptote $y = \frac{a^3}{d^2}$