Monday

. For what value(s) of x is the expression $\frac{4x}{x^2 - x}$ undefined?

(A) $-1, 1$ (B) $-1, 0, 1$ (C) $0, 1$ (D) 0 (E) $1, 2$

Tuesday:

Determine the equations of any vertical asymptotes and the values of x for any holes in the graph of each rational function.

$$f(x) = \frac{x - 1}{x^2 + 4x - 5}$$

Wednesday

CRITICAL THINKING Identify each table of values as a type of function.

a.

x	$f(x)$
−5	7
−3	5
−1	3
0	2
1	3
3	5
5	7
7	9

b.

x	$f(x)$
−5	24
−3	8
−1	0
0	−1
1	0
3	8
5	24
7	48

c.

x	$f(x)$
−1.3	−1
−1.7	−1
0	1
0.8	1
0.9	1
1	2
1.5	2
2.3	3

d.

x	$f(x)$
−5	undefined
−3	undefined
−1	undefined
0	0
1	1
4	2
9	3
16	4

Thursday

STANDARDIZED TEST PRACTICE If $m = \frac{1}{x}$, $n = 7m$, $p = \frac{1}{n}$, $q = 14p$, and $r = \frac{1}{\frac{1}{2}q}$, find x.

(A) r (B) q (C) p (D) $\frac{1}{r}$ (E) $\frac{1}{q}$

Friday

ENTERTAINMENT A basketball team has a halftime promotion where a fan gets to shoot a 3-pointer to try to win a jackpot. The jackpot starts at $5000 for the first game and increases $500 each time there is no winner. Ken has tickets to the fifteenth game of the season. How much will the jackpot be for that game if no one wins by then?