Unit 2 Topic 3 Formative Assessment 1 – Key

Item	Туре	Standard	Scoring Tool	Sample Answers/Responses
1	CR	F.IF.7d	$4 - 4 \text{ correct answers} \\ 3 - 3 \text{ correct answers} \\ 2 - 2 \text{ correct answers} \\ 1 - 1 \text{ correct answer} \\ 0 - 0 \text{ correct answers} \\ \end{bmatrix}$	a) g b) both c) both d) f
2a	CR	F-IF.7d	1 — Correct answer 0 — Incorrect answer	3.6 hours
2b	CR	F-IF.7d	1 — Correct answer 0 — Incorrect answer	The time decreases
2c	CR	F-IF.7d	 3 — Completely correct graph 2 — Mostly correct graph 1 — Minimally correct graph 0 — Incorrect answer 	²⁰ ¹⁹ ¹⁹ ¹⁹ ¹⁰ ¹⁰ ¹⁰ ¹⁰ ¹⁰ ¹⁰ ¹⁰ ¹⁰
3	CR	F-BF.3	3 - 3 correct answers 2 - 2 correct answers 1 - 1 correct answer 0 - 0 correct answers	a) $y = \frac{1}{x-2}$ b) $y = 3 + \frac{1}{x}$ c) $y = -\frac{1}{x}$
4a	CR	A-APR.6	2 — 2 correct transformations 1 — 1 correct transformation 0 — 0 correct transformations	The graph of $y = \frac{1}{x}$ has been translated one unit up and two units to the left.

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Item	Туре	Standard	Scoring Tool	Sample Answers/Responses
4b	CR	A-APR.6	 2 — Student shows a completely correct computation (either combining the terms or long division). 1 — Student shows a partially correct computation. 0 — Incorrect answer 	$1 + \frac{1}{x+2} = \frac{x+2+1}{x+2} = \frac{x+3}{x+2}$ or $x+2)\overline{x+3} so \frac{x+3}{x+2} = 1 + \frac{1}{x+2}$ $\frac{x+2}{1}$
5	CR	A-REI.1 A-REI.2	1 — Correct answer with reason 0 — Incorrect answer	The solution is extraneous because when $x = 3$ is substituted into the original equation, it makes a denominator equal to zero.
6	CR	A-REI.1 A-REI.2	 3 — Correct solution 2 — Student multiplies by the LCM or cross-multiplies and makes one computational error. 1 — Student multiplies by the LCM or cross-multiplies and makes multiple errors. 0 — Incorrect solution method 	x = 17 $\frac{7}{x+4} = \frac{5}{x-2}$ 7(x-2) = 5(x+4) 7x-14 = 5x+20 2x = 34 x = 17
7	CR	A-REI.1 A-REI.2	1 — Correct answer 0 — Incorrect answer	C. $x(x-1)$

Total points: 21

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