$\qquad$

| Without my notes I can... |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Yes | No | I can... | Correct | Incorrect |
|  |  | 1. Factor a quadratic with an 'a' value not equal to one. $6 x^{2}+7 x-3$ |  |  |
|  |  | 2. Identify the removable and essential discontinuities from a graph. |  |  |
|  |  | 3. Describe end behavior, asymptotic behavior, domain, and range of a rational function. $g(x)=\frac{2(x-1)}{(x-1)(x-4)}$ |  |  |




|  | 9. Solve rational functions in context. <br> a. One pipe can fill a pool 1.25 times faster than a second pipe. When both pipes are opened, they fill the pool <br> in 5 hours. How long would it take to fill the pool if only the slower pipe is used? |  |  |
| :--- | :--- | :--- | :--- |
|  | b. Working together, Bill and Tom painted a fence in 8 hours. Last year, Tom painted the fence by himself. <br> The year before, Bill painted it by himself, but took 12 hours less than Tom took. How long did Bill and Tom <br> take, when each was painting alone? |  |  |
|  | c. Jamie has won 8 out of 15 golf tournaments this season. How many more consecutive golf tournaments <br> would Jamie have to win in order to improve her winning percentage to 65\%? |  |  |

