

## Quiz 4

1. Find the Taylor series expansion at  $x = 5$  of the function  $f(x) = \frac{1}{2x^2}$ , and state the interval and radius of convergence. (9 pts.)

2. Find the Taylor series expansion at  $x = 0$  of the function  $g(x) = xe^{3x}$ . (6 pts.)