Beginning Algebra	**Name:** _____
Study Guide 17	**Class:** _____
Due Date: _____	**Score:** _____

No Work ⇔ No Points

Use Pencil Only ⇔ Be Neat & Organized

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1. Find all the excluded values:

(a) (2 points) $\dfrac{5x}{3x+5}$

(a) _____

(b) (2 points) $\dfrac{x-5}{x^2-100}$

(b) _____

(c) (2 points) $\dfrac{2x+1}{x^2-x-20}$

(c) _____

(d) (3 points) $\dfrac{2x-7}{2x^2+5x-12}$

(d) _____

(e) (3 points) $\dfrac{2x}{4x^2+20x+25}$

(e) _____

(f) (4 points) $\dfrac{x+4}{x^3+5x^2-4x-20}$

(f) _____

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2. Simplify:

(a) (2 points) $\dfrac{4x}{2x-8}$

(a) _____

(b) (2 points) $\dfrac{x^2-9}{x^2+8x+15}$

(b) _____

(c) (2 points) $\dfrac{3x+15}{x^2+x-20}$

(c) _____

(d) (3 points) $\dfrac{x^2-16}{x^3-64}$

(d) _____

(e) (3 points) $\dfrac{x^2-7x+10}{x^2-x-20}$

(e) _____

(f) (3 points) $\dfrac{x^2-5x}{25-x^2}$

(f) _____

(g) (3 points) $\dfrac{2x-3}{2x^2-5x+3}$

(g) _____

(h) (3 points) $\dfrac{3x-4y}{9x^2-24xy+16y^2}$

(h) _____

(i) (3 points) $\dfrac{6x^2+11x-10}{4x^2+16x+15}$

(i) _____

(j) (3 points) $\dfrac{16x^2-16x+3}{16x^2-9}$

(j) _____

(k) (3 points) $\dfrac{2x^3+3x^2-8x-12}{2x^2-x-6}$

(k) _____

(l) (4 points) $\dfrac{2x^3-x^2-8x+4}{2x^3-x^2+4x-2}$

(l) _____