

$$1. \lim_{x \rightarrow a} f(x)$$

$$2. \lim_{x \rightarrow b} f(x)$$

$$3. \lim_{x \rightarrow a} g(x)$$

$$4. \lim_{x \rightarrow b} g(x)$$

$$5. \lim_{x \rightarrow a} f(g(x))$$

$$6. \lim_{x \rightarrow b} g(f(x))$$

$$7. \lim_{x \rightarrow a} \frac{f(x)}{g(x)}$$

$$8. \lim_{x \rightarrow b} \frac{f(x)}{g(x)}$$

$$9. \lim_{x \rightarrow a} \frac{g(x)}{f(x)}$$

$$10. \lim_{x \rightarrow b} \frac{g(x)}{f(x)}$$

Take it to the Limit... 10 more times

Using the functions and values of a and b provided, evaluate each limit in your flip-book without using a calculator. Show your work and put your answers in the space provided. Remember to keep writing $\lim_{x \rightarrow a}$ until you actually find the limit! If the limit does not exist write DNE.

| $f(x) =$ | $g(x) =$ | $a =$ | $b =$ |
|----------|----------|-------|-------|
| 1. | | 2. | |
| 3. | | 4. | |
| 5. | | 6. | |
| 7. | | 8. | |
| 9. | | 10. | |