5. [6 points] For fun, Booboo the chimpanzee likes to climb up a pole in the Ape House at the Go Blue Zoo and drop his doll Deedee. The function $T(h)$ gives the number of seconds it takes for Deedee to hit the ground when Booboo drops her from $h$ feet above ground level. Write an expression for each of the following new functions, in terms of the function $T$ :
a. [2 points] $R(h)$ is the time it takes, in minutes, for Deedee to hit the ground when dropped from $h$ feet above ground level. (Note that 1 minute is equivalent to 60 seconds.)

$$
R(h)=
$$

$\qquad$
b. [2 points] $F(y)$ is the time it takes, in seconds, for Deedee to hit the ground when dropped from $y$ yards above ground level. (Note that 1 yard is equivalent to 3 feet.)

$$
F(y)=
$$

$\qquad$
c. [2 points] There is a small platform mounted on the pole 8 feet up from the ground. Sometimes Deedee lands there instead of the ground. The function $P(h)$ gives the time, in seconds, for Deedee to hit the platform when dropped from $h$ feet above ground level. If we want to express $P(h)$ in terms of the function $T$, circle the best option below.

$$
P(h)=T(h+8) \quad P(h)=T(h-8) \quad P(h)=T(h)+8 \quad P(h)=T(h)-8
$$

