LOGIC: VERIFYING QUANTIFIED ARGUMENTS [PIRNOT 3.5]

EX 3.5.1: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

All musicians are artists.
Ringo is a musician.

$\therefore$ Ringo is an artist.

EX 3.5.2: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

All musicians are artists.
Ringo is an artist.

$\therefore$ Ringo is a musician.

EX 3.5.3: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

All musicians are artists.
Ringo is not an artist.

$\therefore$ Ringo is not a musician.

EX 3.5.4: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

All musicians are artists.
Ringo is not a musician.

$\therefore$ Ringo is not an artist.

EX 3.5.5: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

No musicians are artists.
Ringo is a musician.

$\therefore$ Ringo is an artist.

EX 3.5.6: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

No musicians are artists.
Ringo is an artist.

$\therefore$ Ringo is not a musician.

EX 3.5.7: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

No musicians are artists.
Ringo is not an artist.

$\therefore$ Ringo is a musician.

EX 3.5.8: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

No musicians are artists.
Ringo is not a musician.

$\therefore$ Ringo is not an artist.

EX 3.5.9: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

Some musicians are artists.
Ringo is a musician.

$\therefore$ Ringo is an artist.

EX 3.5.10: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

Some musicians are artists.
Ringo is a musician.

$\therefore$ Ringo is not an artist.

EX 3.5.11: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

Some animals are large.
Some dangerous animals are large.

$\therefore$ Some animals are dangerous.

EX 3.5.12: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

Some animals are large.
All large animals are dangerous.
$\therefore$ Some animals are dangerous.

EX 3.5.13: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

All animals are mortal.
Some mortals are dangerous.
$\therefore$ Some animals are dangerous.

EX 3.5.14: Using Euler Diagram(s), determine whether the following argument is valid or invalid:

No cats are dangerous.
Some animals are dangerous.
$\therefore$ Some animals are cats.