

```

[> restart:
[> EgyptianFraction := proc(a)
    local b, c, s:
    b := 1/ceil(1/a);
    c := a-b:
    s := b:
    while c > 0 do
        b := 1/ceil(1/c);
        c := c-b:
        s := s, b:
    end do;
    return s;
end proc:

```

```

> EgyptianFraction(7/15);

```

$$\frac{1}{3}, \frac{1}{8}, \frac{1}{120}$$

(1)

```

> EgyptianFraction(5/121);

```

$$\frac{1}{25}, \frac{1}{757}, \frac{1}{763309}, \frac{1}{873960180913}, \frac{1}{1527612795642093418846225}$$

(2)

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> EgyptianFraction(9/10);

```

$$\frac{1}{2}, \frac{1}{3}, \frac{1}{15}$$

(3)

```

[>

```